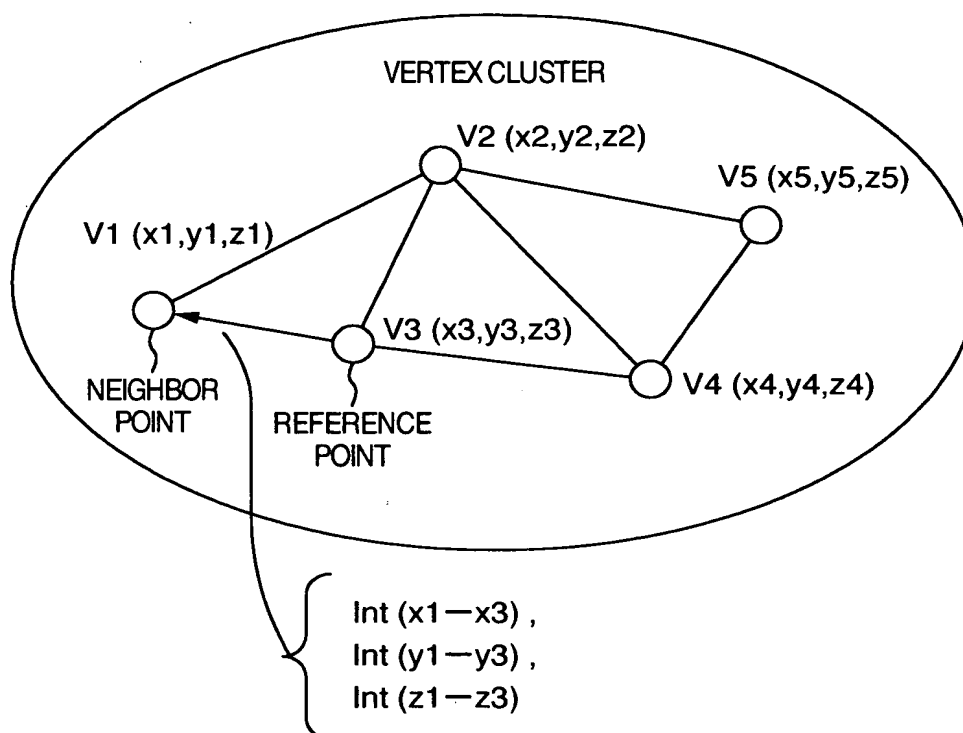


FIG. 1

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FIG.2A

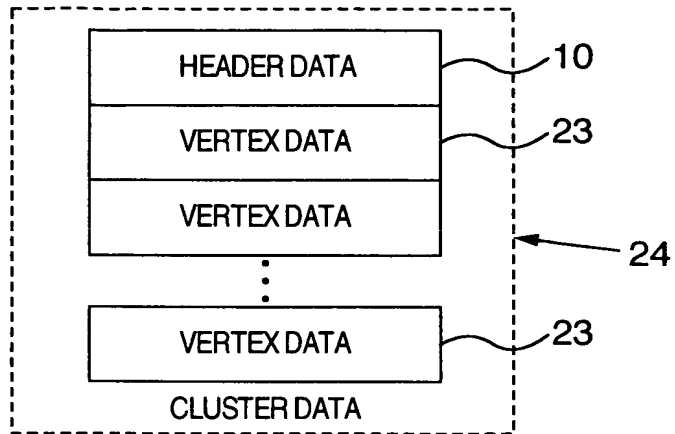


FIG.2B

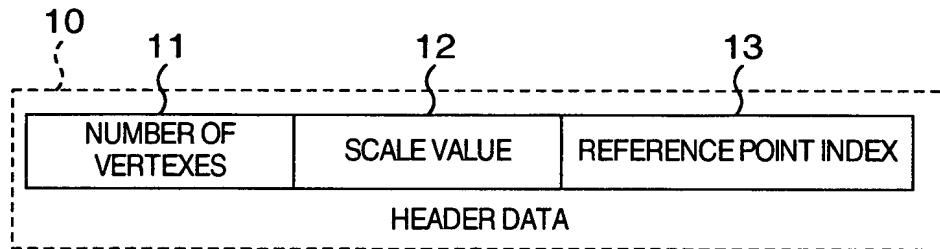


FIG.2C

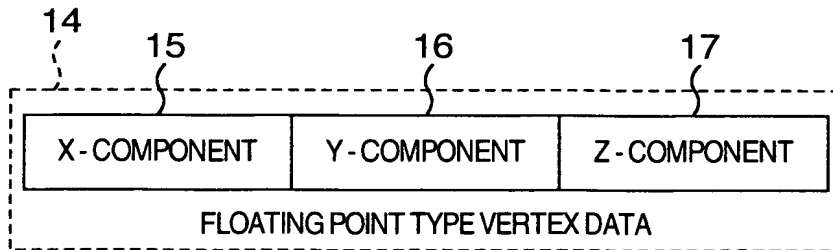
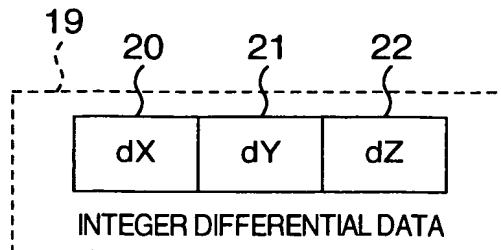


FIG.2D



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FIG.3A

INTEGER DIFFERENTIAL EXPRESSION OF IN-CLUSTER COORDINATES
(REFERENCE POINT=V3)

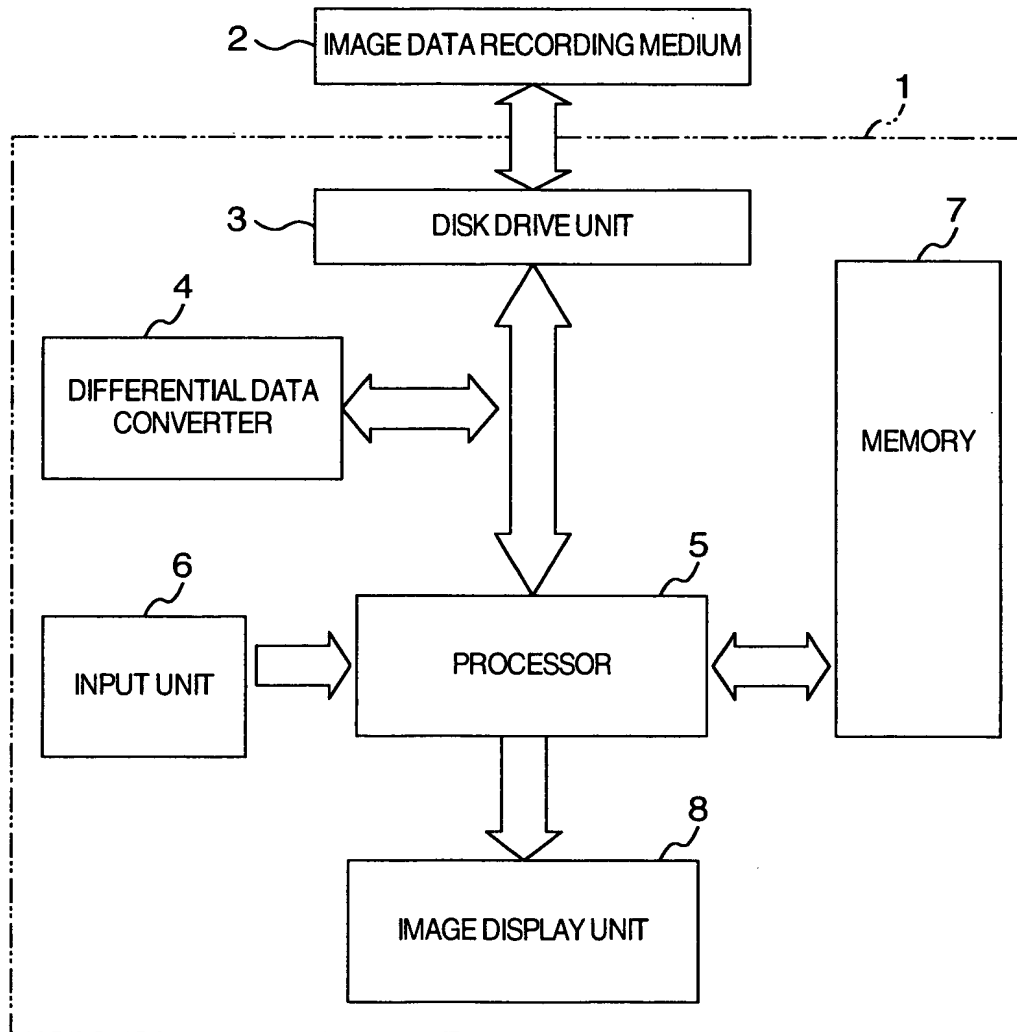
VERTEX	X - COMPONENT	Y - COMPONENT	Z - COMPONENT
V1	Int (x1-x3)	Int (y1-y3)	Int (z1-z3)
V2	Int (x2-x3)	Int (y2-y3)	Int (z2-z3)
V3	x3	y3	z3
V4	Int (x4-x3)	Int (y4-y3)	Int (z4-z3)
V5	Int (x5-x3)	Int (y5-y3)	Int (z5-z3)

FIG.3B

FLOATING POINT DIFFERENTIAL EXPRESSION OF IN-CLUSTER COORDINATES
(REFERENCE POINT=V3)

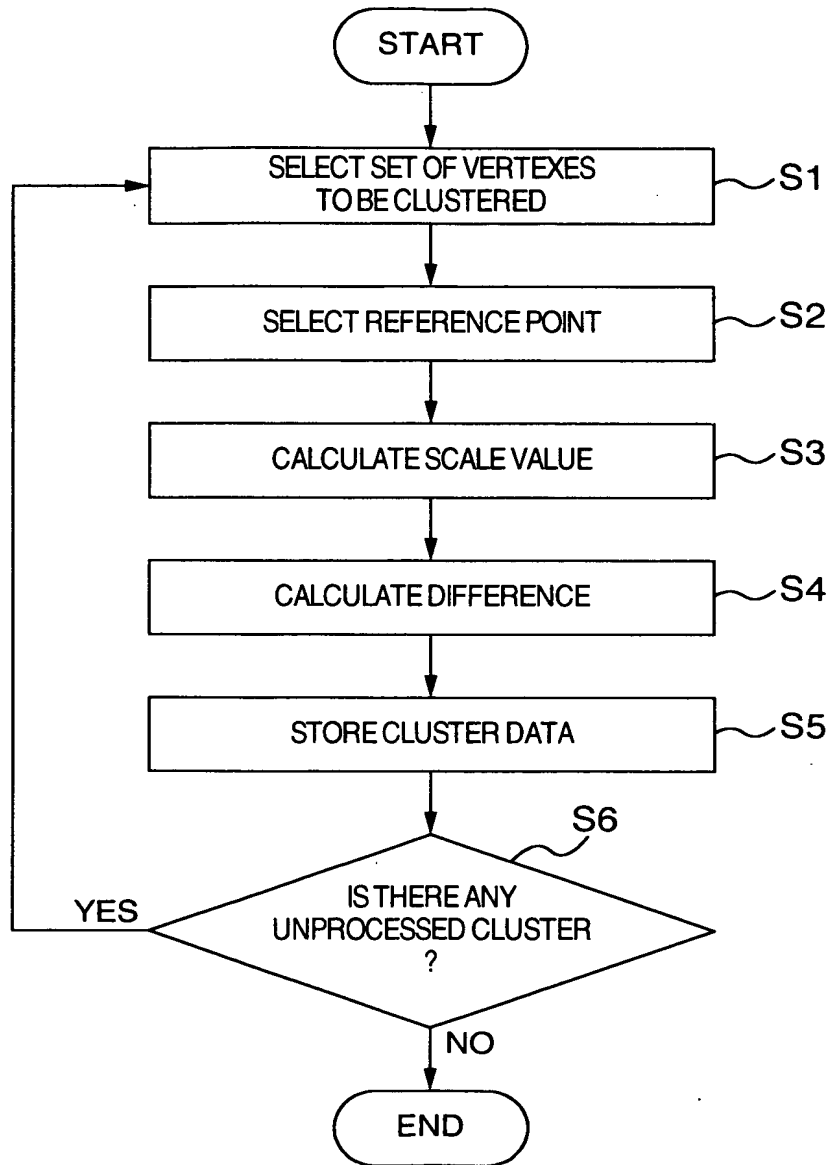
VERTEX	X - COMPONENT	Y - COMPONENT	Z - COMPONENT
V1	x1-x3	y1-y3	z1-z3
V2	x2-x3	y2-y3	z2-z3
V3	x3	y3	z3
V4	x4-x3	y4-y3	z4-z3
V5	x5-x3	y5-y3	z5-z3

FIG.4



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FIG.5



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FIG.6A

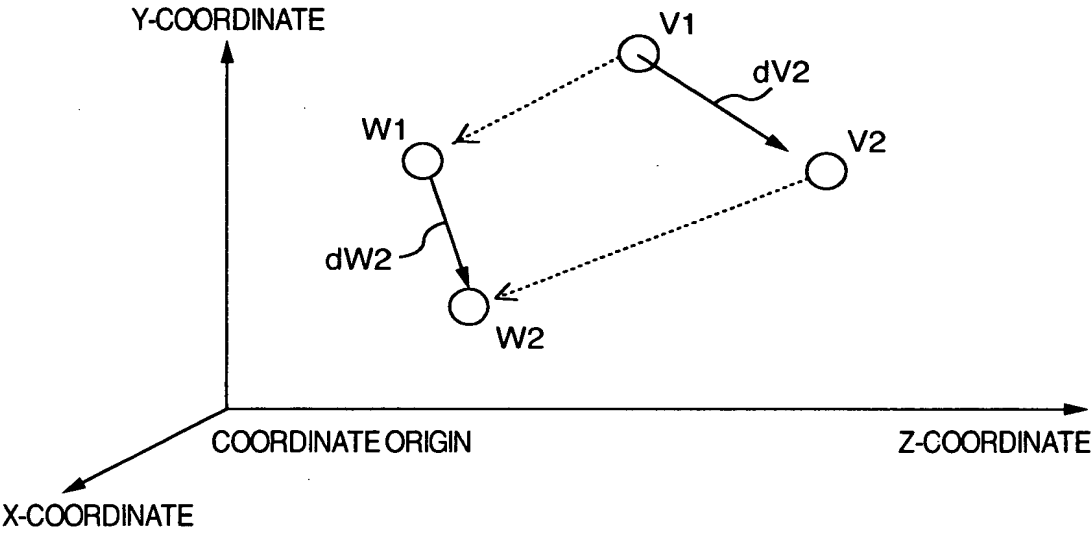


FIG.6B

AFFINE TRANSFORMATION : $W=M*V+P$. . . EXPRESSION (1)	
$\begin{pmatrix} tx \\ ty \\ tz \end{pmatrix} = \begin{pmatrix} m11 & m12 & m13 \\ m21 & m22 & m23 \\ m31 & m32 & m33 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} + \begin{pmatrix} p \\ q \\ r \end{pmatrix} . . .$	EXPRESSION (2)		

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FIG.7A

COORDINATE DIFFERENTIAL EXPRESSION BEFORE AFFINE TRANSFORMATION (REFERENCE POINT=V1)			
VERTEX	X - COMPONENT	Y - COMPONENT	Z - COMPONENT
V1	X - COMPONENT OF V1	Y - COMPONENT OF V1	Z - COMPONENT OF V1
V2	X - COMPONENT OF dV2	Y - COMPONENT OF dV2	Z - COMPONENT OF dV2

FIG.7B

COORDINATE DIFFERENTIAL EXPRESSION AFTER AFFINE TRANSFORMATION (REFERENCE POINT=W1)			
VERTEX	X - COMPONENT	Y - COMPONENT	Z - COMPONENT
W1	X - COMPONENT OF M^*V1+P	Y - COMPONENT OF M^*V1+P	Z - COMPONENT OF M^*V1+P
W2	X - COMPONENT OF M^*dV2	Y - COMPONENT OF M^*dV2	Z - COMPONENT OF M^*dV2

FIG.8A

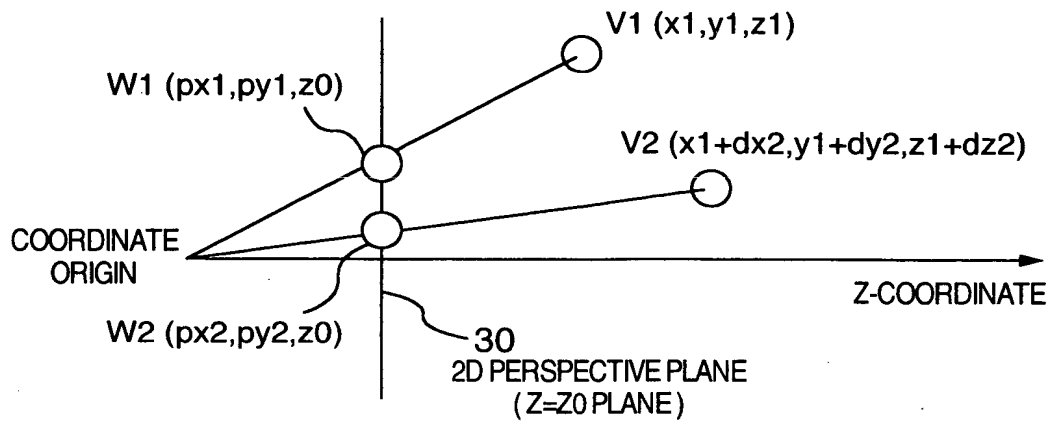
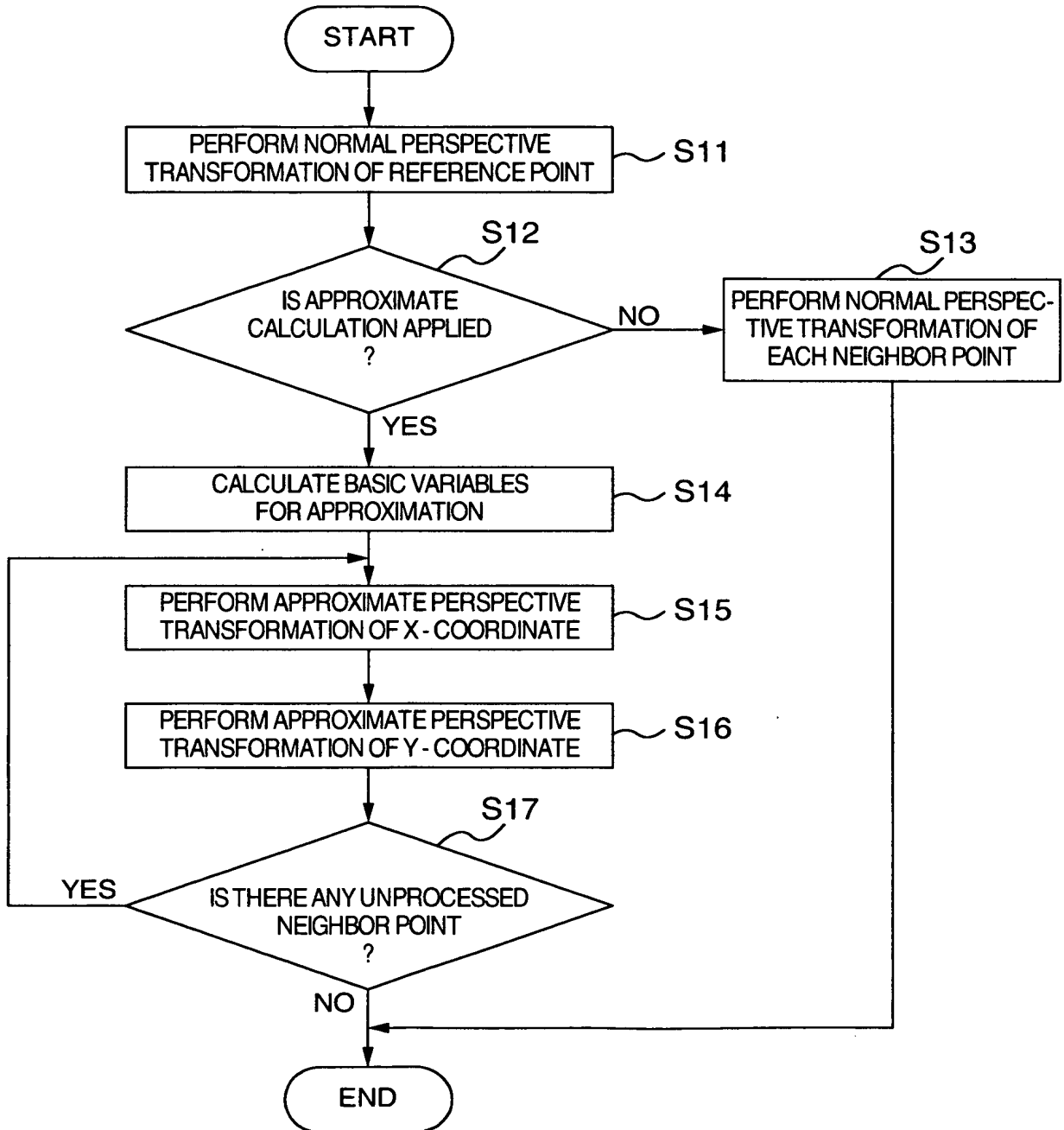


FIG.8B

$A=z0/z1$	EXPRESSION 1
$B=z0/(z1*z1)$	EXPRESSION 2
$px1=A*x1$	EXPRESSION 3
$py1=A*y1$	EXPRESSION 4
$px2=(A-B*dz2)*(x1+dx2)$	EXPRESSION 5
$py2=(A-B*dz2)*(y1+dy2)$	EXPRESSION 6
$D=z0/(z1+dz)$	EXPRESSION 7
$px=D*(x1+dx)$	EXPRESSION 8
$py=D*(y1+dy)$	EXPRESSION 9
$\frac{1}{z+dz} = \frac{1}{z} - \frac{1}{z^2}dz + \frac{1}{z^3}dz^2$ $- \frac{1}{z^4}dz^3 + \dots$	EXPRESSION 10
$\frac{z0}{z1+dz2} = \frac{z0}{z1} - \frac{z0}{z1^2} * dz2$	EXPRESSION 11

FIG.9



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FIG.10A

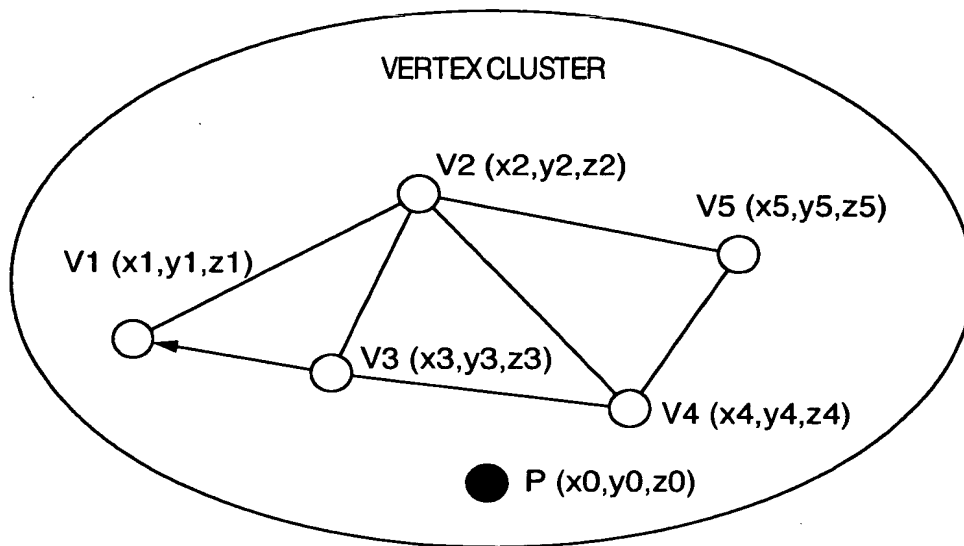
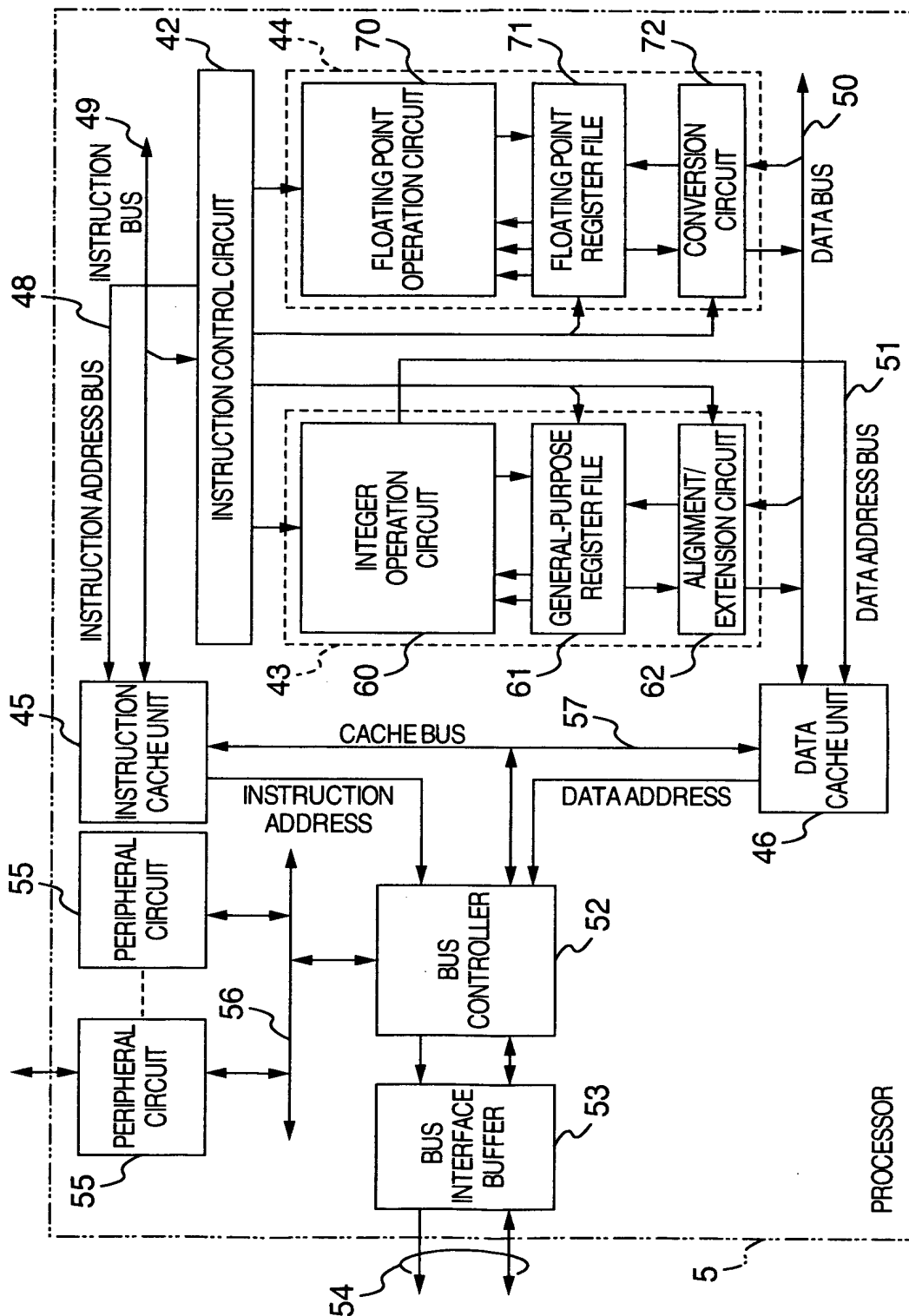


FIG.10B

INTEGER DIFFERENTIAL EXPRESSION OF IN-CLUSTER COORDINATES
(REFERENCE POINT=P)

VERTEX	X - COMPONENT	Y - COMPONENT	Z - COMPONENT
V1	Int (x1-x0)	Int (y1-y0)	Int (z1-z0)
V2	Int (x2-x0)	Int (y2-y0)	Int (z2-z0)
V3	Int (x3-x0)	Int (y3-y0)	Int (z3-z0)
V4	Int (x4-x0)	Int (y4-y0)	Int (z4-z0)
V5	Int (x5-x0)	Int (y5-y0)	Int (z5-z0)



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FIG.12

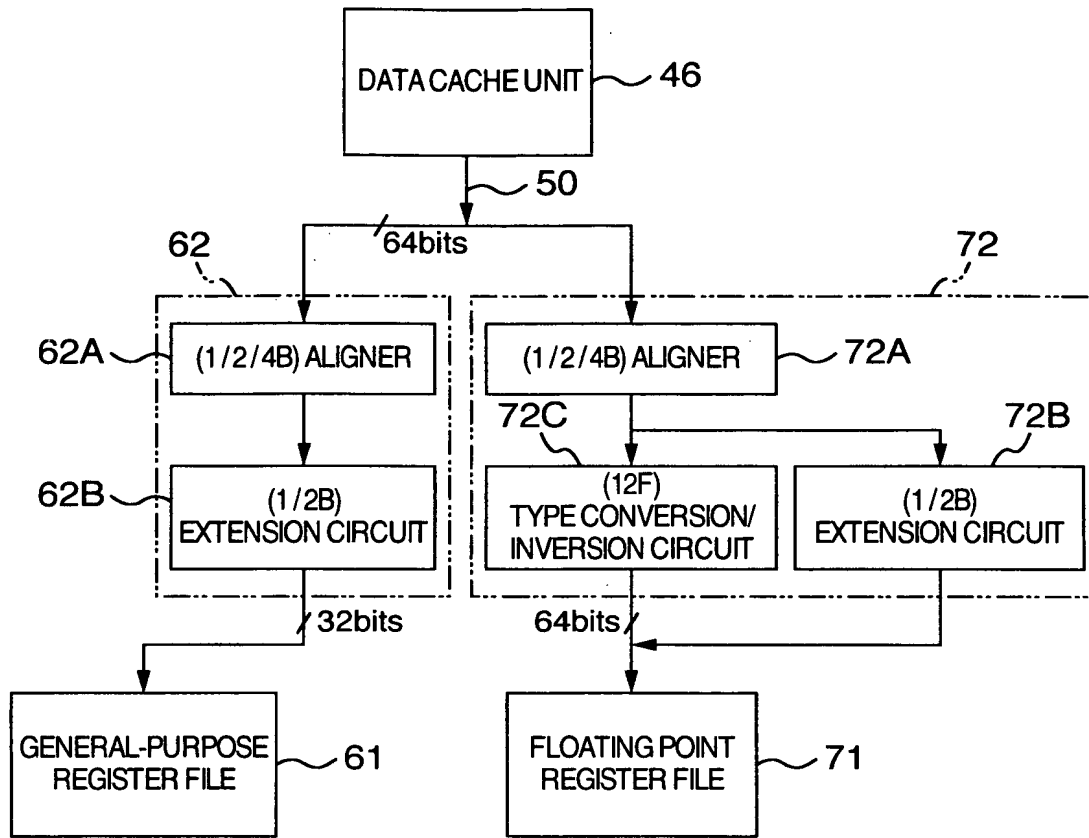


FIG.13

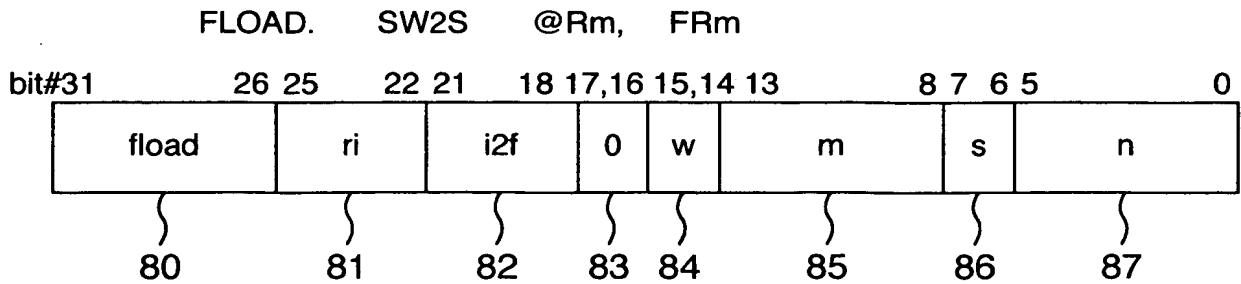
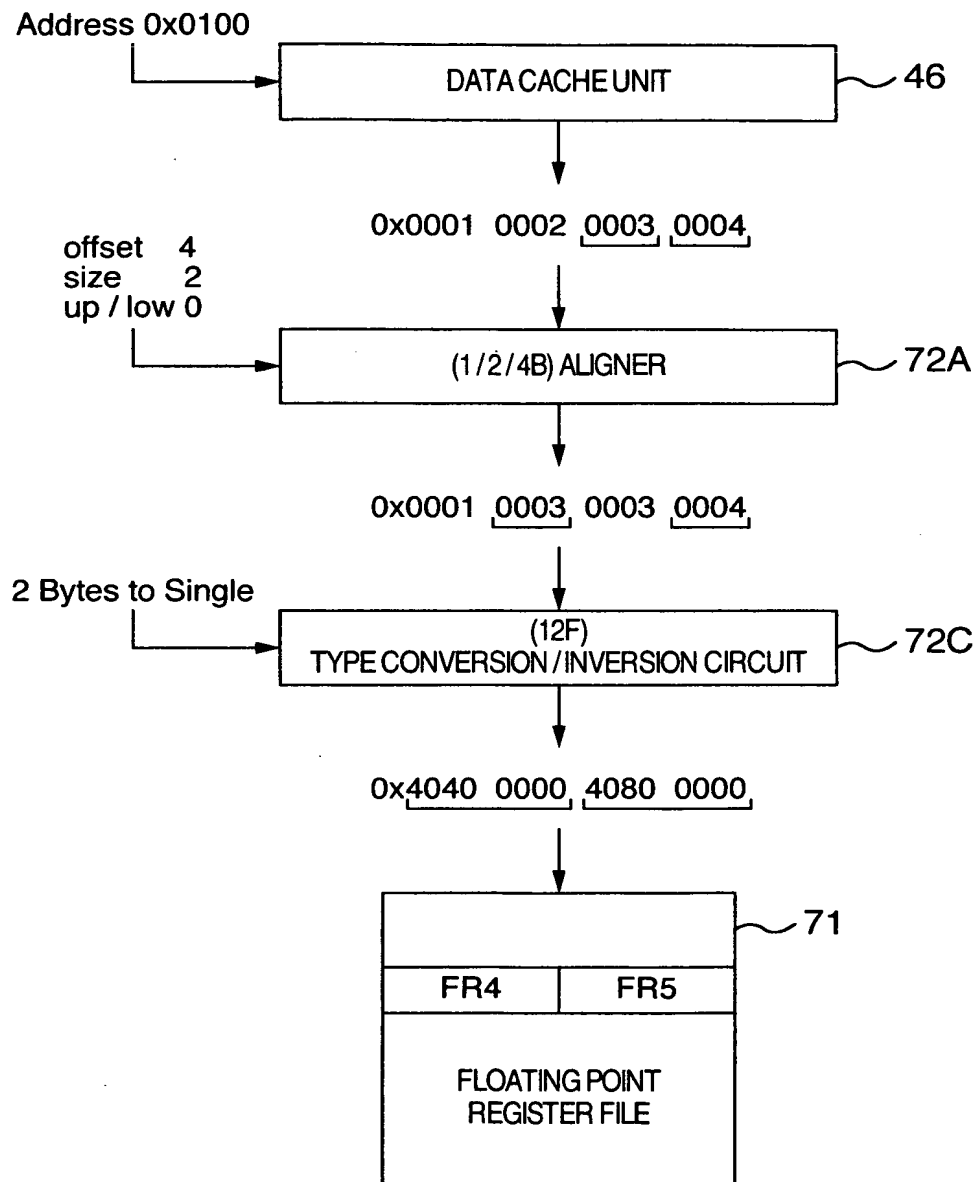
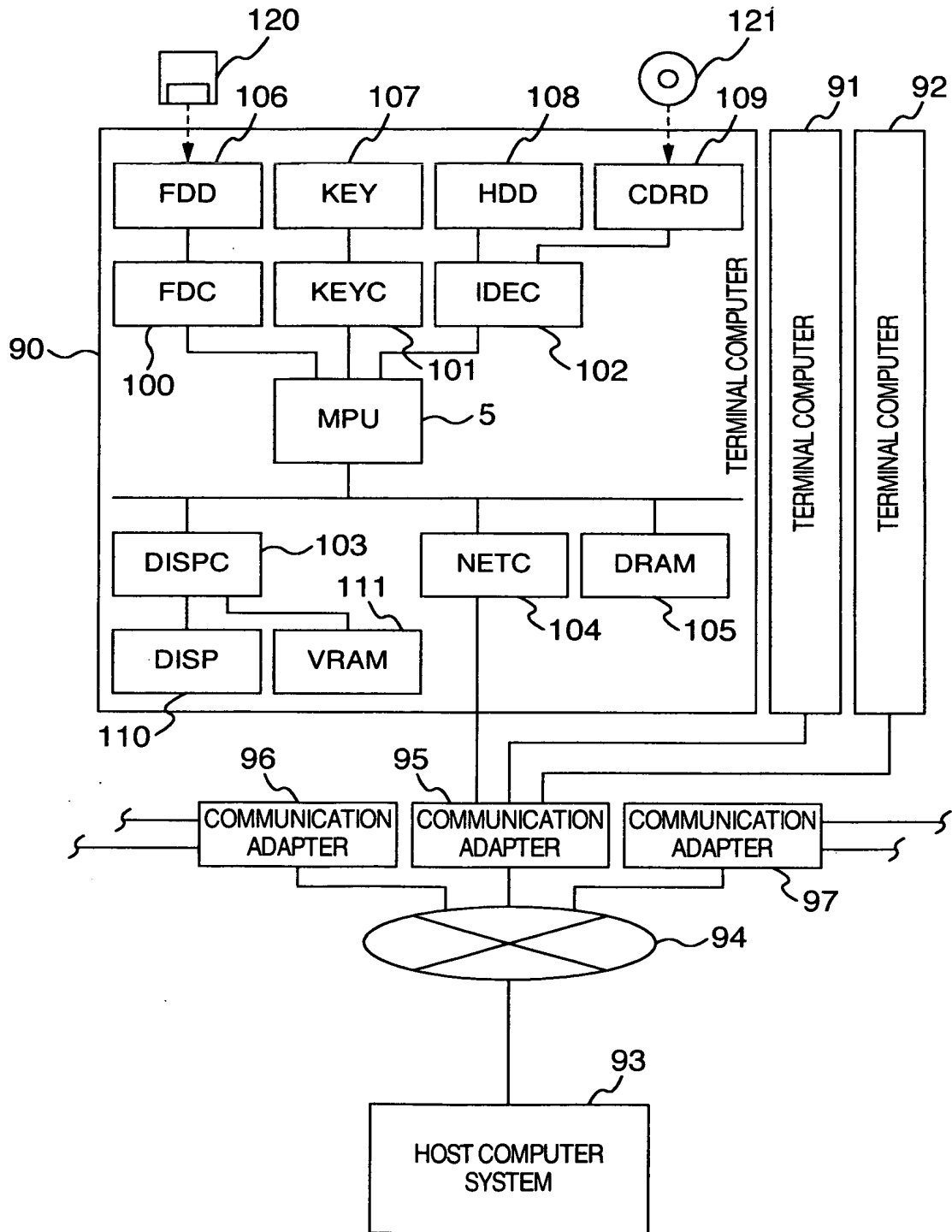


FIG.14



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FIG.15



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